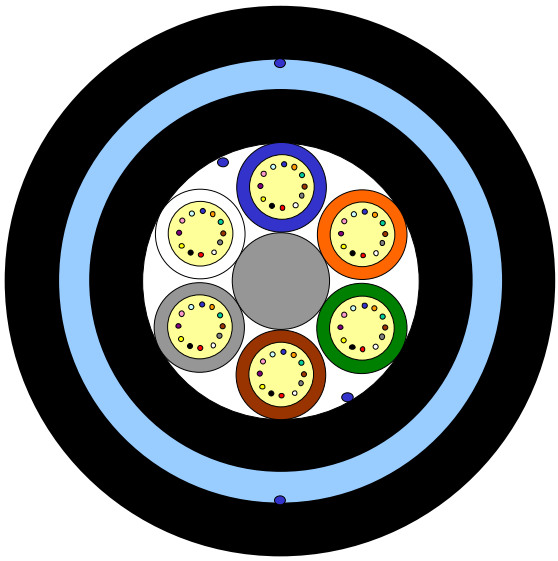
Loose Tube Fibre Optic Outdoor Cable

6 Element All Dielectric Dry Core Design

Standard Dielectric Robust

Issue April 2018
according to **OFS Generic Specification**



Application

Mainly used in Duct-Installation (HD-PE Tubes) and installed by Cable Blowing or Pulling as well as suitable for direct burial into sand beds

Design

- Optical Fibres
- Gel-filled Buffer Tubes (2.3 mm)
- Non-metallic Central Member
- Water Blocking Material
- Ripcords
- Inner PE-Jacket
- Layers of non-metallic Glass Elements
- Outer PE-Jacket

Features

- PGP (Polyethylene -Glass- Polyethylene) Sheath Construction - offers extra mechanical, environmental and rodents protection
- Dry Core Design – Cable core water blocked by means of dry “water swellable” technology - for quicker, cleaner cable prep for jointing
- Individual coloured tubes

Version illustrated is the 72 Fibre Cable

Fibre Count	Tubes	Core Design	Outer Diameter [mm]	Cable Weight [kg/km]	Standard Length [m]	AT-Code**
72	6	1+6	12.9	135	2000 / 4000 / 6000 / 8000	AT-[ ][ ][ ]22UT-072-Glass

This table shows nominal diameter and weight values which may differ in shipments.
*Fillers are natural coloured **Please refer to the OFS AT- Code. The blanks specify the fibre type.

Identification

Tube and Fibre Colour Code :

1	Blue	**2**	Orange	**3**	Green	**4**	Brown	**5**	Grey	**6**	White
7	Red	**8**	Black	**9**	Yellow	**10**	Violet	**11**	Rose	**12**	Aqua

Alternative tube and fibre colour code available on request

Sheath Marking:

OFS OPTICAL CABLE STANDARD DIELECTRIC ROBUST [ID] [MM/YYYY] [Handset Sign] xxxF [Meter Marking]

Alternative sheath printing available on request.
In case of order the exact sheath printing text will be clarified with the customer.

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Mechanical Properties and Environmental Behaviour

Tests according to **IEC 60794**

	Parameter	Requirement	Value
Tensile Performance: IEC 60794-1-21-E1A and E1B	Long term load	- No attenuation increase* - No fibre strain	Load: 1000 N
	Short term load, during installation	- No changes in attenuation before versus after load - Max. fibre strain 0.33%	Load: 2700 N
Crush Performance:	Long term load	- No attenuation increase*	Load (Plate / Plate): 500 N
IEC 60794-1-21-E3	Short term load	- No changes in attenuation before versus after load - No damage**	Load (Plate / Plate): 3000 N
Bending Performance:	Handling fixed installed	- No attenuation increase*	Bend radius: 10 x D
IEC 60794-1-21-E11	During installation (under load)	- No changes in attenuation before versus after load	Bend radius: 20 x D *D is cable diameter*
Temperatures: IEC 60794-1-22-F1	Operation Installation Storage/Shipping	- No attenuation increase*	-40 to +70°C -15 to +60°C -40 to +70°C

* No changes in attenuation means that any changes in measurement value, either positive or negative within the uncertainty of measurement shall be ignored. The total uncertainty of measurement shall be less than of equal to 0.05 dB.

** Mechanical damage – when examined visually without magnification, there shall be no evidence of damage to the sheath. The imprint of plates will not be considered as damage.

Shipping Information

Cable Length	Drum Dimensions (approx.)		Shipping Weight (calc.)	
	Diameter(battened)	Width	Without lagging	With lagging
2000 m	**1250 mm**	**790 mm**	**350 kg**	**390 kg**
4000 m	**1600 mm**	**1055 mm**	**670 kg**	**730 kg**
6000 m	**1600 mm**	**1055 mm**	**940 kg**	**1000 kg**
8000 m	**1750 mm**	**1055 mm**	**1230 kg**	**1290 kg**

The shipping information are given for one-way reels. Reusable reels are available on request.

The information is believed to be accurate at time of issue.
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